

SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: WILLIAMS, TIMOTHY J.  
JOSE, PETER J.  
GRIFFITHS-JOHNSON, DAVID A.  
HSUAN, JOHN J.

(ii) TITLE OF INVENTION: CHEMOTACTIC CYTOKINE

(iii) NUMBER OF SEQUENCES: 11

(iv) CORRESPONDENCE ADDRESS:

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(D) STATE: VIRGINIA  
(E) COUNTRY: U.S.A.  
(F) ZIP: 22201-4714

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk  
(B) COMPUTER: IBM PC compatible  
(C) OPERATING SYSTEM: PC-DOS/MS-DOS  
(D) SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US 08/615,232  
(B) FILING DATE: 13-AUG-1996  
(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: GB 9318984  
(B) FILING DATE: 14-SEP-1993  
  
(A) APPLICATION NUMBER: GB 9408602  
(B) FILING DATE: 29-APR-1994

(viii) ATTORNEY/AGENT INFORMATION:

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(B) REGISTRATION NUMBER: 32,955  
(C) REFERENCE/DOCKET NUMBER: 550-32

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: (703) 816-4000  
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(2) INFORMATION FOR SEQ ID NO: 1:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 73 amino acids  
(B) TYPE: amino acid  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(iii) HYPOTHETICAL: NO

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Cavia porcellus
- (D) DEVELOPMENTAL STAGE: Adult
- (F) TISSUE TYPE: Bronchoalveolar lavage fluid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

His Pro Gly Ile Pro Ser Ala Cys Cys Phe Arg Val Thr Asn Lys Lys  
1 5 10 15

Ile Ser Phe Gln Arg Leu Lys Ser Tyr Lys Ile Ile Thr Ser Ser Lys  
20 25 30

Cys Pro Gln Thr Ala Ile Val Phe Glu Ile Lys Pro Asp Lys Met Ile  
35 40 45

Cys Ala Asp Pro Lys Xaa Xaa Trp Val Gln Asp Ala Lys Lys Tyr Leu  
50 55 60

Asp Gln Ile Ser Gln Xaa Thr Lys Pro  
65 70

(2) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 73 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(iii) HYPOTHETICAL: NO

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Cavia cobaya
- (F) TISSUE TYPE: Bronchial lavage fluid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

His Pro Gly Ile Pro Ser Ala Cys Cys Phe Arg Val Thr Asn Lys Lys  
1 5 10 15

Ile Ser Phe Gln Arg Leu Lys Ser Tyr Lys Ile Ile Thr Ser Ser Lys  
20 25 30

Cys Pro Gln Thr Ala Ile Val Phe Glu Ile Lys Pro Asp Lys Met Ile  
35 40 45

Cys Ala Asp Pro Lys Lys Trp Val Gln Asp Ala Lys Lys Tyr Leu  
50 55 60

Asp Gln Ile Ser Gln Thr Thr Lys Pro  
65 70

INFORMATION FOR SEQ ID NO: 3:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 24 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (primer)

(iii) HYPOTHETICAL: YES

(iii) ANTI-SENSE: NO

(ix) FEATURE:  
(A) NAME/KEY: modified\_base: N is inosine  
(B) LOCATION: 12

(ix) FEATURE:  
(A) NAME/KEY: modified\_base: N is inosine  
(B) LOCATION: 15

(ix) FEATURE:  
(A) NAME/KEY: modified\_base: N is inosine  
(B) LOCATION: 18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

TGCTGTTCC GNGTNACNAA CAAA

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INFORMATION FOR SEQ ID NO: 4:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 21 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (primer)

(iii) HYPOTHETICAL: YES

(iii) ANTI-SENSE: YES

(ix) FEATURE:  
(A) NAME/KEY: modified\_base: N is inosine  
(B) LOCATION: 10

(ix) FEATURE:  
(A) NAME/KEY: modified\_base: N is inosine  
(B) LOCATION: 16

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

CATCTTGTGN GGCTTNATTTC

21

INFORMATION FOR SEQ ID NO:5:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 76 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

Gln Pro Asp Ala Ile Asn Ala Pro Val Thr Cys Cys Tyr Asn Phe Thr  
1 5 10 15

Asn Arg Lys Ile Ser Val Gln Arg Leu Ala Ser Tyr Arg Arg Ile Thr  
20 25 30

Ser Ser Lys Cys Pro Lys Glu Ala Val Ile Phe Lys Thr Ile Val Ala  
35 40 45

Lys Glu Ile Cys Ala Asp Pro Lys Gln Lys Trp Val Gln Asp Ser Met  
50 55 60

Asp His Leu Asp Lys Gln Thr Gln Thr Pro Lys Thr  
65 70 75

(2) INFORMATION FOR SEQ ID NO:6:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 74 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

Asp Ser Val Ser Ile Pro Ile Thr Cys Cys Phe Asn Val Ile Asn Arg  
1 5 10 15

Lys Ile Pro Ile Gln Arg Leu Glu Ser Tyr Thr Arg Ile Thr Asn Ile  
20 25 30

Gln Cys Pro Lys Glu Ala Val Ile Phe Lys Thr Lys Arg Gly Lys Glu  
35 40 45

Val Cys Ala Asp Pro Lys Glu Arg Trp Val Arg Asp Ser Met Lys His  
50 55 60

Leu Asp Gln Ile Phe Gln Asn Leu Lys Pro  
65 70

(2) INFORMATION FOR SEQ ID NO:7:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 70 amino acids

- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

Lys Ser Thr Thr Cys Cys Tyr Arg Phe Ile Asn Lys Lys Ile Pro Lys  
1                   5                   10                   15

Gln Arg Leu Glu Ser Tyr Arg Arg Thr Thr Ser Ser His Cys Pro Arg  
20                   25                   30

Glu Ala Val Ile Phe Lys Asp Lys Leu Asp Lys Glu Ile Cys Ala Asp  
35                   40                   45

Pro Thr Gln Lys Trp Val Gln Asp Phe Met Lys His Leu Asp Lys Lys  
50                   55                   60

Thr Gln Thr Pro Lys Leu  
65                   70

(2) INFORMATION FOR SEQ ID NO:8:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 71 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

Gly Val Asn Thr Pro Thr Cys Cys Tyr Thr Phe Asn Lys Gln Ile Pro  
1                   5                   10                   15

Leu Lys Arg Val Lys Gly Tyr Glu Arg Ile Thr Ser Ser Arg Cys Pro  
20                   25                   30

Gln Glu Ala Val Ile Phe Arg Thr Leu Lys Asn Lys Glu Val Cys Ala  
35                   40                   45

Asp Pro Thr Gln Lys Trp Val Gln Asp Tyr Ile Ala Lys Leu Asp Gln  
50                   55                   60

Arg Thr Gln Gln Lys Gln Asn  
65                   70

(2) INFORMATION FOR SEQ ID NO:9:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 69 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single

- (D) TOPOLOGY: linear  
(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

Ser Leu Ala Ala Asp Thr Pro Thr Ala Cys Cys Phe Ser Tyr Thr Ser  
1 5 10 15  
Arg Gln Ile Pro Gln Asn Phe Ile Ala Asp Tyr Phe Glu Thr Ser Ser  
20 25 30  
Gln Cys Ser Lys Pro Gly Val Ile Phe Leu Thr Lys Arg Ser Arg Gln  
35 40 45  
Val Cys Ala Asp Pro Ser Glu Glu Trp Val Gln Lys Tyr Val Ser Asp  
50 55 60  
Leu Glu Leu Ser Ala  
65

(2) INFORMATION FOR SEQ ID NO:10:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 68 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

Pro Met Gly Ser Asp Pro Pro Thr Ala Cys Cys Phe Ser Tyr Thr Ala  
1 5 10 15  
Arg Lys Leu Pro Arg Asn Phe Val Val Asp Tyr Tyr Glu Thr Ser Ser  
20 25 30  
Leu Cys Ser Gln Pro Ala Val Val Phe Gln Thr Lys Arg Ser Lys Gln  
35 40 45  
Val Cys Ala Asp Pro Ser Glu Ser Trp Val Gln Glu Tyr Val Tyr Asp  
50 55 60  
Leu Glu Leu Asn  
65

(2) INFORMATION FOR SEQ ID NO:11:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 68 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

Ser Pro Tyr Ser Ser Asp Thr Thr Pro Cys Cys Phe Ala Tyr Ile Ala  
1 5 10 15

Arg Pro Leu Pro Arg Ala His Ile Lys Glu Tyr Phe Tyr Thr Ser Gly  
20 25 30

Lys Cys Ser Asn Pro Ala Val Val Phe Val Thr Arg Lys Asn Arg Gln  
35 40 45

Val Cys Ala Asn Pro Glu Lys Lys Trp Val Arg Glu Tyr Ile Asn Ser  
50 55 60

Leu Glu Met Ser  
65